

09/957456

ATT#8

# WEST Search History

DATE: Monday, March 03, 2003

<u>Set Name</u>	<u>Query</u>	<u>Hit Count</u>	<u>Set Name</u>
side by side		result set	
<i>DB=USPT,PGPB,JPAB,EPAB,DWPI; PLUR=YES; OP=ADJ</i>			
L9	l1 with L8	2	L9
L8	sox6 or sox5	10	L8
L7	l1 with L6	10	L7
L6	sox9	22	L6
L5	l3 and l4	852	L5
L4	transfect\$ or transduc\$ or transform\$ or infect\$	987043	L4
L3	l1 with L2	1016	L3
L2	differentiat\$	166940	L2
L1	chondro\$	9525	L1

END OF SEARCH HISTORY

# WEST Search History

DATE: Wednesday, April 02, 2003

<u>Set Name</u> side by side	<u>Query</u>	<u>Hit Count</u>	<u>Set Name</u> result set
DB=USPT,PGPB,JPAB,EPAB,DWPI;	PLUR=YES; OP=ADJ	65	L1
L1	col2a1!		

END OF SEARCH HISTORY

09/95 2456  
Att H8

=> s col2a1  
L1 1267 COL2A1

=> s enhancer?  
L2 102416 ENHANCER?

=> l1 and l2  
L1 IS NOT A RECOGNIZED COMMAND

The previous command name entered was not recognized by the system.  
For a list of commands available to you in the current file, enter  
"HELP COMMANDS" at an arrow prompt (>).

=> s l1 and l2  
L3 125 L1 AND L2

=> dup rem l3  
PROCESSING COMPLETED FOR L3  
L4 42 DUP REM L3 (83 DUPLICATES REMOVED)

=> s l4 and py<2000  
1 FILES SEARCHED...  
3 FILES SEARCHED...  
4 FILES SEARCHED...  
L5 22 L4 AND PY<2000

=> d 15 ibib abs 1-22

L5 ANSWER 1 OF 22 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.  
ACCESSION NUMBER: 1999:527438 BIOSIS  
DOCUMENT NUMBER: PREV199900527438  
TITLE: Changes in chondrocyte-specific gene expression patterns during loss of the chondrocyte-specific phenotype and its subsequent recovery.  
AUTHOR(S): Stokes, D. G. (1); Liu, G. (1); Dharmavaram, R. (1); Jimenez, S. A. (1)  
CORPORATE SOURCE: (1) Philadelphia, PA USA  
SOURCE: Arthritis & Rheumatism, ( \*\*\*Sept., 1999\*\*\* ) Vol. 42, No. 9 SUPPL., pp. S201.  
Meeting Info.: 63rd Annual Scientific Meeting of the American College of Rheumatology and the 34th Annual Scientific Meeting of the Association of Rheumatology Health Professionals Boston, Massachusetts, USA November 13-17, 1999  
ISSN: 0004-3591.  
DOCUMENT TYPE: Conference  
LANGUAGE: English

L5 ANSWER 2 OF 22 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.  
ACCESSION NUMBER: 1999:311153 BIOSIS  
DOCUMENT NUMBER: PREV199900311153  
TITLE: SV40 large T antigen expression driven by \*\*\*col2a1\*\*\* regulatory sequences immortalizes articular chondrocytes but does not allow stabilization of type II collagen expression.  
AUTHOR(S): Steinberg, Nathalie; Viengchareun, Say; Biehlmann, Florence; Guenai, Isabelle; Mignotte, Bernard; Adolphe, Monique; Thenet, Sophie (1)  
CORPORATE SOURCE: (1) Laboratoire de Pharmacologie Cellulaire, Centre de Recherches Biomedicales des Cordeliers, Ecole Pratique des Hautes Etudes, 15 rue de l'Ecole de Medecine, 75006, Paris France  
SOURCE: Experimental Cell Research, ( \*\*\*June 15, 1999\*\*\* ) Vol. 249, No. 2, pp. 248-259.  
ISSN: 0014-4827.

DOCUMENT TYPE: Article  
LANGUAGE: English  
SUMMARY LANGUAGE: English  
AB Immortalization of chondrocytes by SV40 T Ag has often been reported to trigger the loss of expression of type II collagen, one of the main differentiation markers, although some immortalized chondrocyte lines maintaining a differentiated phenotype have also been described. Here, we show using transient cotransfections in differentiated chondrocytes that,

in contrast to c-src, neither SV40 T Ag, nor c-myc, decreases \*\*\*col2a1\*\*\* transcriptional activity. Then, we report the possibility of immortalizing rabbit articular chondrocytes by expression of SV40 T

Ag controlled by the \*\*\*col2a1\*\*\* promoter and \*\*\*enhancer\*\*\* (pCol2SV). This strategy allows one to select within a population of differentiated chondrocytes those which are able to maintain functional regulation of the \*\*\*col2a1\*\*\* gene through long-term culture. In precrisis pCol2SV-transfected chondrocytes, all-trans-retinoic acid, a down-regulator of \*\*\*col2a1\*\*\* expression, induced apoptosis, strongly

suggesting the strict control of T Ag expression by \*\*\*col2a1\*\*\* regulatory sequences. Some pCol2SV-transfected chondrocytes were definitively immortalized, after a short crisis period. However, type II collagen synthesis was restricted to a small proportion of cells, which went on to decrease with subculture, while the proportion of cells expressing T Ag was not affected. In these postcrisis cells, T Ag remained at least partially under the control of functional \*\*\*col2a1\*\*\* regulatory elements as assessed by all-trans-retinoic acid down-regulation.

L5 ANSWER 3 OF 22 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.

ACCESSION NUMBER: 1999:180561 BIOSIS  
DOCUMENT NUMBER: PREV199900180561  
TITLE: Chondrocyte-specific \*\*\*enhancer\*\*\* elements in the Col1a2 and \*\*\*Col2a1\*\*\* genes share common characteristics.

AUTHOR(S): Bridgewater, L. C.; De Crombrugge, B.  
CORPORATE SOURCE: Univ. Tex. M. D. Anderson Cancer Cent., Houston, TX 77030 USA

SOURCE: Proceedings of the American Association for Cancer Research

Annual Meeting, ( \*\*\*March, 1999\*\*\* ) Vol. 40, pp. 367-368.

Meeting Info.: 90th Annual Meeting of the American Association for Cancer Research Philadelphia, Pennsylvania, USA April 10-14, 1999 American Association for Cancer Research

ISSN: 0197-016X.

DOCUMENT TYPE: Conference

LANGUAGE: English

L5 ANSWER 4 OF 22 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.

ACCESSION NUMBER: 1999:73907 BIOSIS

DOCUMENT NUMBER: PREV199900073907

TITLE: Mechanism of regulatory target selection by the SOX high-mobility-group domain proteins as revealed by comparison of SOX1/2/3 and SOX9.

AUTHOR(S): Kamachi, Yusuke; Cheah, Kathryn S. E.; Kondoh, Hisato (1)

CORPORATE SOURCE: (1) Inst. Molecular Cellular Biol., Osaka Univ., Yamadaoka 1-3, Suitasho, Osaka 565-0871 Japan

SOURCE: Molecular and Cellular Biology, ( \*\*\*Jan., 1999\*\*\* ) Vol.

19, No. 1, pp. 107-120.

ISSN: 0270-7306.

DOCUMENT TYPE: Article

LANGUAGE: English

AB SOX proteins bind similar DNA motifs through their high-mobility-group (HMG) domains, but their action is highly specific with respect to target genes and cell type. We investigated the mechanism of target selection by comparing SOX1/2/3, which activate delta-crystallin minimal \*\*\*enhancer\*\*\* DC5, with SOX9, which activates \*\*\*Col2a1\*\*\* minimal

\*\*\*enhancer\*\*\* COL2C2. These \*\*\*enhancers\*\*\* depend on both the SOX

binding site and the binding site of a putative partner factor. The DC5 site was equally bound and bent by the HMG domains of SOX1/2 and SOX9. The

activation domains of these SOX proteins mapped at the distal portions of the C-terminal domains were not cell specific and were independent of the partner factor. Chimeric proteins produced between SOX1 and SOX9 showed

from CPC cellulose columns, and hexosamine content. During the initial period of overt cardiac muscle \*\*\*differentiation\*\*\* (approximately stage 10) \*\*\*chondroitin\*\*\* sulfates are not \*\*\*detectable\*\*\* but an undersulfated component is present. Chondroitin sulfate synthesis appears shortly after overt muscle differentiation. Hyaluronate is present both during and after overt myocardial differentiation. Although epimerization of 3H glucosamine derived labeled UPD N acetyl D glucosamine

occurs (determined by recovery of incorporated labeled galactosamine), label does not appear in chondroitin sulfate. 3H Glucosamine is thus a relatively specific precursor for unsulfated glycosaminoglycans, a fact that was exploited in demonstrating their distribution radioautographically. Glycosaminoglycan synthesis was also examined in hearts labeled in isolated organ culture and *in situ* but exposed directly to the medium by removal of the splanchnopleure. In both cases fully sulfated chondroitin sulfate and chondroitin are not synthesized. Hearts make only hyaluronate and undersulfated chondroitin sulfate.

L19 ANSWER 57 OF 57 HCPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 1965:465046 HCPLUS

DOCUMENT NUMBER: 63:65046

ORIGINAL REFERENCE NO.: 63:1989c-d

TITLE: Histochemical studies on acid mucopolysaccharides. I.  
On some new methods and differentiation in tissue  
sections

AUTHOR(S): Sugiyama, Taketoshi

CORPORATE SOURCE: Univ. Kyoto, Japan

SOURCE: Acta Pathol. Japon. (1964), 14(4), 413-31;433

DOCUMENT TYPE: Journal

LANGUAGE: English

AB A cationic resin-azo dye method was developed for use with all mucopolysaccharides. A Neutral Red method differentiated sulfated and nonsulfated acid mucopolysaccharides. Keratosulfate, which was not stained, and \*\*\*chondroitin\*\*\* sulfate B, which stained, were \*\*\*differentiated\*\*\* by a \*\*\*testicular\*\*\*

hyaluronidase-methylation-saponification method. The Molisch reaction was used to identify keratosulfate, contg. galactose, and sialomucin, contg. neuraminic acid, histochem.

=> s sox9 or sox5 or sox6

L20 1216 SOX9 OR SOX5 OR SOX6

=> s l1 and l20

L21 397 L1 AND L20

=> dup rem l21

PROCESSING COMPLETED FOR L21

L22 148 DUP REM L21 (249 DUPLICATES REMOVED)

=> s l22 and l6

L23 58 L22 AND L6

=> s l22 and py<2001

1 FILES SEARCHED...

3 FILES SEARCHED...

4 FILES SEARCHED...

L24 71 L22 AND PY<2001

=> dup rem l24

PROCESSING COMPLETED FOR L24

L25 71 DUP REM L24 (0 DUPLICATES REMOVED)

=> d l25 ibib abs 1-71

L25 ANSWER 1 OF 71 HCPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 2001:742073 HCPLUS

DOCUMENT NUMBER: 136:178839

TITLE: Regulations of \*\*\*sox9\*\*\* activity during \*\*\*chondrogenesis\*\*\*

AUTHOR(S): Huang, Wendong

CORPORATE SOURCE: Health Science Center, Univ. of Texas,  
Houston, TX,

USA

SOURCE: ( \*\*\*2000\*\*\* ) 122 pp. Avail.: UMI, Order No.

DA9994539

From: Diss. Abstr. Int., B 2001, 61(11), 5715

DOCUMENT TYPE: Dissertation

LANGUAGE: English

AB Unavailable

L25 ANSWER 2 OF 71 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.

ACCESSION NUMBER: 2000:339946 BIOSIS

DOCUMENT NUMBER: PREV200000339946

TITLE: Identification of an enhancer sequence within the first intron required for cartilage-specific transcription of the alpha2(XI) collagen gene.

AUTHOR(S): Liu, Ying; Li, Haochuan; Tanaka, Kazuhiro; Tsumaki, Noriyuki; Yamada, Yoshihiko (1)

CORPORATE SOURCE: (1) CDBRB, NIDCR, NIH, Bldg. 30, Rm. 405, Bethesda, MD,

20892 USA

SOURCE: Journal of Biological Chemistry, ( \*\*\*April 28, 2000\*\*\* ) Vol. 275, No. 17, pp. 12712-12718. print.

ISSN: 0021-9258.

DOCUMENT TYPE: Article

LANGUAGE: English

SUMMARY LANGUAGE: English

AB Type XI collagen, a heterotrimer composed of alpha1(XI), alpha2(XI) and

alpha3(XI), is primarily synthesized by \*\*\*chondrocytes\*\*\* in cartilage and is also present in some other tissues. Type XI collagen plays a critical role in collagen fibril formation and skeletal morphogenesis. We investigated a tissue-specific transcriptional enhancer in the first intron of the alpha2(XI) collagen gene (Col11a2). Transient transfection assays using reporter gene constructs revealed that a 60-base pair (bp) segment within intron 1 increased promoter activity of Col11a2 in rat \*\*\*chondrosarcoma\*\*\* cells but not in either BalB/3T3 cells or undifferentiated ATDC5 cells, suggesting that it contained cell type-specific enhancer activity. In transgenic mice, this 60-bp fragment was also able to target beta-galactosidase expression to cartilage including the limbs and axial skeleton, with similar localization specificity as the full-length intron 1 fragment. Competition experiments in gel shift assays using mutated oligonucleotides showed that recombinant

\*\*\*Sox9\*\*\* bound to a 7-bp sequence, CT-CAAAG, within the 60-bp segment.

Anti- \*\*\*Sox9\*\*\* antibodies supershifted the complex of the 60-bp segment with recombinant \*\*\*Sox9\*\*\* or with rat

\*\*\*chondrosarcoma\*\*\* cell extracts, confirming the binding of \*\*\*Sox9\*\*\* to the enhancer. Moreover, a site-specific mutation within the 7-bp segment resulted in essentially complete loss of the enhancer activity in

\*\*\*chondrosarcoma\*\*\* cells and transgenic mice. These results suggest that the 7-bp sequence within intron 1 plays a critical role in the cartilage-specific enhancer activity of Col11a2 through \*\*\*Sox9\*\*\* -mediated transcriptional activation.

L25 ANSWER 3 OF 71 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.

ACCESSION NUMBER: 2000:452411 BIOSIS

DOCUMENT NUMBER: PREV200000452411

TITLE: \*\*\*SOX9\*\*\* enhances aggrecan gene promoter/enhancer activity and is up-regulated by retinoic acid in a cartilage-derived cell line, TC6.

AUTHOR(S): Sekiya, Ichiro; Tsuji, Kunikazu; Koopman, Peter; Watanabe, Hideto; Yamada, Yoshihiko; Shinomiya, Kenichi; Nifuji, Akira; Noda, Masaki (1)

CORPORATE SOURCE: (1) Dept. of Molecular Pharmacology, Medical Research

Inst., Tokyo Medical and Dental University, 2-3-10

Kanda-Surugadai, Chiyoda-ku, Tokyo, 101-0062 Japan

SOURCE: Journal of Biological Chemistry, ( \*\*\*April 14, 2000\*\*\* ) Vol. 275, No. 15, pp. 10738-10744. print.

ISSN: 0021-9258.

DOCUMENT TYPE: Article

LANGUAGE: English

SUMMARY LANGUAGE: English

AB \*\*\*SOX9\*\*\* is a transcription factor that plays a key role in \*\*\*chondrogenesis\*\*\*. Aggrecan is one of the major structural